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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22850

1940 DUKE STREET

ALEXANDRIA, VA 22314

7590

01/28/2010

OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P.

**EXAMINER** EDUN, MOHAMMAD N ART UNIT PAPER NUMBER

2627

DATE MAILED: 01/28/2010

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/542,082	07/13/2005	Tsutomu Ishimoto	274622US6PCT	6738

TITLE OF INVENTION: INFORMATION RECORDING OR REPRODUCING DEVICE AND RECORDING OR REPRODUCING METHOD

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/28/2010

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current **SMALL ENTITY status:** 

A. If the status is the same, pay the TOTAL FEE(S) DUE shown

B. If the status above is to be removed, check box 5b on Part B -Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

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### Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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Alexandria, Virginia 22313-1450 (571)-273-2885 or <u>Fax</u>

INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address as indicated unless corrected below or directed otherwise in Block 1, by (a) specifying a new correspondence address; and/or (b) indicating a separate "FEE ADDRESS" for maintenance fee notifications.

Note: A certificate of mailing can only be used for domestic mailings of the CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address) Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission. 22850 01/28/2010 Certificate of Mailing or Transmission OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L. Phereby certify that this Fee(s) Transmittal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below. 1940 DUKE STREET ALEXANDRIA, VA 22314 (Depositor's name (Signature (Date APPLICATION NO. FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. FILING DATE 10/542.082 07/13/2005 Tsutomu Ishimoto 274622US6PCT 6738 TITLE OF INVENTION: INFORMATION RECORDING OR REPRODUCING DEVICE AND RECORDING OR REPRODUCING METHOD APPLN. TYPE SMALL ENTITY ISSUE FEE DUE PUBLICATION FEE DUE PREV. PAID ISSUE FEE TOTAL FEE(S) DUE DATE DUE nonprovisional NO \$1510 \$300 \$0 \$1810 04/28/2010 **EXAMINER** ART UNIT CLASS-SUBCLASS EDUN, MOHAMMAD N 2627 369-044270 1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys ☐ Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. or agents OR, alternatively, (2) the name of a single firm (having as a member a ☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed. 3. ASSIGNEE NAME AND RESIDENCE DATA TO BE PRINTED ON THE PATENT (print or type) PLEASE NOTE: Unless an assignee is identified below, no assignee data will appear on the patent. If an assignee is identified below, the document has been filed for recordation as set forth in 37 CFR 3.11. Completion of this form is NOT a substitute for filing an assignment. (A) NAME OF ASSIGNEE (B) RESIDENCE: (CITY and STATE OR COUNTRY) 4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) 4a. The following fee(s) are submitted: lssue Fee A check is enclosed. Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number \_\_\_\_\_\_ (enclose an extra copy of this fo Advance Order - # of Copies \_ (enclose an extra copy of this form). 5. Change in Entity Status (from status indicated above) a. Applicant claims SMALL ENTITY status. See 37 CFR 1.27. ■ b. Applicant is no longer claiming SMALL ENTITY status. See 37 CFR 1.27(g)(2). NOTE: The Issue Fee and Publication Fee (if required) will not be accepted from anyone other than the applicant; a registered attorney or agent; or the assignee or other party in interest as shown by the records of the United States Patent and Trademark Office. Authorized Signature Date Typed or printed name Registration No. This collection of information is required by 37 CFR 1.311. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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	1940 DUKE STREET			PAPER NUMBER	
ALEXANDRIA, V	A 22314		2627		

## **Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)**

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 1175 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 1175 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)			
	10/542,082	ISHIMOTO, TSUTOMU			
Notice of Allowability	Examiner	Art Unit			
	   MUHAMMAD N. EDUN	2627			
	MORAWIWAD N. EDUN	2021			
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in th or other appropriate communic IGHTS. This application is subj	is application. If not included action will be mailed in due course. <b>THIS</b>			
1. $\boxtimes$ This communication is responsive to <u>the communication fil</u>	ed on 12/31/09.				
2. ☑ The allowed claim(s) is/are <u>1-7</u> .					
<ul> <li>3.  Acknowledgment is made of a claim for foreign priority ur</li> <li>a)  All b)  Some* c)  None of the:</li> <li>1.  Certified copies of the priority documents have</li> </ul>		f).			
2.   Certified copies of the priority documents have	been received in Application N	lo			
3. Copies of the certified copies of the priority documents have been received in this national stage application from the					
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		reply complying with the requirements			
4. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give					
5. CORRECTED DRAWINGS ( as "replacement sheets") mus	st be submitted.				
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached					
1)  hereto or 2)  to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t					
<ol> <li>DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT</li> </ol>					
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. ☐ Notice of Inforr	nal Patent Application			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Sumi	mary (PTO-413),			
3. Information Disclosure Statements (PTO/SB/08),	Paper No./Ma 7. ⊠ Examiner's Am	il Date nendment/Comment			
Paper No./Mail Date  4.  Examiner's Comment Regarding Requirement for Deposit	8. 🛛 Examiner's Sta	atement of Reasons for Allowance			
of Biological Material	9.				
/MUHAMMAD N EDUN/					
Primary Examiner, Art Unit 2627					

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**Election/Restrictions** 

Claims 8-42 are withdrawn from further consideration pursuant to 37 CFR

1.142(b) as being drawn to a nonelected species, there being no allowable generic or

linking claim. Election was made without traverse in the reply filed on 12/31/2009.

This application is in condition for allowance except for the presence of claims 8-

42 directed to species non-elected without traverse. Accordingly, claims 8-42 will be

canceled by an examiner's amendment, see below.

**EXAMINER'S AMENDMENT** 

The application has been amended as follows:

In the claims

Cancel claims 8-42.

The prior art made of record and not relied upon is considered

pertinent to applicant's disclosure.

Morishima (US 2002/0196719) and Ishimoto (US 2006/0187773), both disclose

an optical disk apparatus having the ability of detecting axial-runout or the radial

position of the optical disk.

**Reasons For Allowance** 

The following is an Examiner's Statement of Reasons for Allowance:

Re claims 1-6

The prior art of record alone or in combination does not teach or suggest the

information recording apparatus having the combination of elements with their recited

functions, along with a storage means for storing an axial-runout amount detected in a

predetermined radial position on the disk-shaped optical recording medium in timing of

generation of the pulse signals by the pulse signal generating means in correspondence

with the count value in the counting means; a light source to emit a light beam of a

predetermined wavelength modulated with information to be written to the information

recording surface of the disk-shaped optical recording medium; a near-field light

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projecting means for condensing a light beam emitted from the light source and projecting the condensed light beam as near-field light to the information recording surface when it is located in a field near the information recording surface of the diskshaped optical recording medium; a radial-position information detecting means for detecting radial-position information indicative of a radial position on the information recording surface of the disk-shaped optical recording medium being irradiated with the light beam from the near-field light projecting means; a gain generating means for generating a predetermined gain corresponding to radial-position information detected by the radial-position information detecting means; an axial-runout amount reading means for reading an axial-runout amount stored in the storage means correspondingly to the count of pulse signals counted by the counting means; a first controlling means for generating a control signal by multiplying the axial-runout amount read by the axialrunout amount reading means by the predetermined gain generated by the gain generating means to control the near-field light projecting means to follow the axialrunout amount; a return-light amount detecting means for detecting a return-light amount of the near-field light projected to the information recording surface; and a second controlling means for controlling the near-field light projecting means on the basis of the linear characteristic of the return light amount of the near-field light detected by the return-light amount detecting means to keep a predetermined distance within the near field from the information recording surface, as set forth in claims 1-6.

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## Re claim 7

The prior art of record alone or in combination does not teach or suggest the information recording method having the combination of steps with their recited process, along with a storing step in which an axial-runout amount detected in a predetermined radial position on the disk-shaped optical recording medium in timing of generation of the pulse signals in the pulse signal generating step is stored in correspondence with the count value counted in the counting step; a near-field light projecting step in which there is condensed a light beam of a predetermined wavelength modulated with information to be written to the information recording surface of the disk-shaped optical recording medium and emitted from a light source and the condensed light beam is projected as near-field light to the information recording surface from a near-field light projecting means located in a field near the information recording surface of the diskshaped optical recording medium; a radial-position information detecting step in which there is detected radial-position information indicative of a radial position on the information recording surface of the disk-shaped optical recording medium being irradiated with the light beam from the near-field light projecting means; a gain generating step in which there is generated a predetermined gain corresponding to radial-position information detected in the radial-position information detecting step; an axial-runout amount reading step in which an axial-runout amount stored in the storing step is read correspondingly to the count of pulse signals counted in the counting step; a first controlling step in which a control signal is generated by multiplying the axialrunout amount read in the axial-runout amount reading step by the predetermined gain generated in the gain generating step to control the near-field light projecting means to follow the axial-runout amount; a return-light amount detecting step in which there is detected a return-light amount of the near-field light projected to the information recording surface; and a second controlling step in which the near-field light projecting means is controlled based on the linear characteristic of the return light amount of the near-field light detected in the return-light amount detecting step to keep a predetermined distance within the near field from the information recording surface, as set forth in claim 7.

Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably **accompany** the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to MUHAMMAD N. EDUN whose telephone number is 571-272-7617. The examiner can normally be reached on FLEXITIME.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/MUHAMMAD N EDUN/ Primary Examiner, Art Unit 2627